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11/2/04  
In the Claims

Claims 1 - 8 Cancelled

1  
9. (Currently Amended) An isolated and purified Lawsonia intracellularis outer membrane protein, comprising the amino acid sequence as set forth in immunoreactive with antisera to SEQ ID NO: 2 and having a molecular weight of about 37 kD as determined by sodium dodecyl sulphate polyacrylamide gel electrophoresis.

Claims 10 - 12 Cancelled

13. (Previously presented) The Lawsonia intracellularis Outer Membrane Protein according to claim 9, comprising SEQ ID NO: 2.

Claims 14 - 17 Cancelled

2  
18. (Currently amended) An immunogenic composition comprising an immunogenically effective amount of a the protein according to claim 9, and a pharmaceutically acceptable carrier.

3  
19. (Previously amended) An immunogenic composition further according to claim 18, comprising an adjuvant.

4  
20. (Previously amend d) The immunogenic composition according to claim 18, <sup>2 further</sup> comprising at least one antigen in addition to the *Lawsonia intracellularis* outer membrane protein derived from a virus or micro-organism pathogenic to pigs or genetic information encoding said antigen.

5  
21. (Previously amended) The immunogenic composition according to claim <sup>4</sup> 20, wherein said virus or micro-organism pathogenic to pigs is selected from the group consisting of Pseudorabies virus, Porcine influenza virus, Porcine parvo virus, Transmissible gastro-enteritis virus, Rotavirus, *Escherichia coli*, *Erysipelo rhusiopathiae*, *Bordetella bronchiseptica*, *Salmonella choleraesuis*, *Haemophilus parasuis*, *Pasteurella multocida*, *Streptococcus suis*, *Mycoplasma hyopneumoniae* and *Actinobacillus pleuropneumoniae*.

Claims 22 - 37 Cancelled

38. (Currently amended) An immunogenic composition for combating *Lawsonia intracellularis* infection comprising a the protein according to claim 9.